## 102. Cardiovascular Changes in Brucellosis

"Changes in the Cardiovascular System in Brucellosis," by Ya. L. Lur'ye and Ye. P. Tarkhanova, Trudy Kuybishevskogo Meditsinskogo Instituta (Works of the Kuybishev Medical Institute), Vol 5, 1954, pp 296-303 (from Sovetskoye Meditsinskoye Referativnoye Obozreniye, No 20, 1956, p 54, abstracted by K. Gorbunova)

"Thirty-eight patients suffering from brucellosis, principally the chronic and subacute forms, were examined. All patients were subjected to detailed clinical and serological investigations. The Burnet test was positive in the majority of the patients. Analysis of the data obtained led to the conclusion that subjective disturbance of the cardiovascular system and physical heart disorders were observed in a considerable number of the patients. Upon electrocardiographic investigation, changes in the electrocardiogram which indicated diffuse dystrophic changes in the myocardium were evidenced in the majority of cases, and variations which reflected focal changes in the myocardium occurred in a number of cases. The blood flow rate was retarded somewhat which bore witness to reflected affection of vascular tonus. Capillaroscopic investigations which were conducted in a number of cases revealed pronounced disturbances in the peripheral blood circulation of brucellosis patients." (U)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010014-7 CIA-RDP86-00513R001755010014-7

KARAPETYAN, N.G.; TARKHANYAN, A.S.; LYUBIMOVA, A.N.

Hydration of vinylacetylene to methyl vinyl ketone by means of sulfuric acid solutions of cuprous oxide. Part 1: Solubility of vinylacetylene in sulfuric acid solutions of cuprous oxide. Izv. AN Arm. SSR. Khim. nauki 17 no.4:398-406 64. (MIRA 18:6)

1. Yerevenskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta sinteticheskogo kauchuka im. akad. S.V.Lebedeva.

KIRAPETIAN, N.G., TARKIANTAN, A.S.: LYUBIMOYA, A.H.

Hydration of vinylacetylene to methylvinylketone by culturic acid nolutions of cuprous exide. Park 2: Peaction of vinylacetylene with sulfuric acid solution of cuprous exide. Tzv.AN Arm. SSP. Khim. neuki 18 no. 2: 360-365 165. (MIRA 18:12)

1. Vaesoyaznyy neucono-issledovateliskiy i projektnyy isstitut polimerczki produktow. Submitted Jums 17, 1964.

APPROVED FOR RELEASE: Thursday, September 26, 2002

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R001755010014-7"

CIA-RDP86-00513R001755010014-7"

## TARKHANYAN G.Kh.

A new silage crop. Izv.AN Arm. SSR. Biol. i sel'khos. nauki. 5 no. 9: 91 '52. (MLRA 9:8)

1. Zaveduyushchiy Stepanavanskim gossortouchastkom. (Stepanavan District--Rye) (Ensilage)

All and malidean, I.L., Tirknanyan, Sa.

The change of potential in the atom influenced by the cotical transferon

PERIODICAL: Optika i spektroskaivi, v.14. no.4, 1963, 571-573

TEXT: In some quantum-mechanical problems the deformation of atoms due to optical transitions of the valency electrons must be taken into account. In this paper the spherically-symmetrical part of this change in potential is examined. For atoms with a not too small Z an approximate calculation can be carried out using quasi-classical motion of the majority of electrons in the atom. Starting from Poisson's equation the following expressions are for the four the change in Starting from Voisson's equation the following expressions are for the four the change in Starting from Voisson's equation the following expressions are for the four the change in Starting from Voisson's equation atoms due to removal of valency electrons

Card 1/2  $\int_{-\infty}^{\infty} \delta(z) dz = \int_{-\infty}^{\infty} d(z-z) dz = 0$  (8)

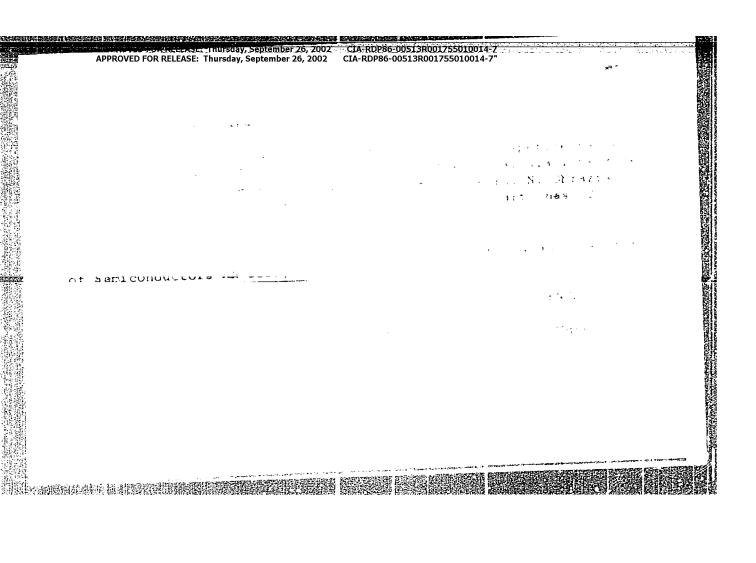
APPROVED FOR RELEASE: Thursday, September 26, 2002

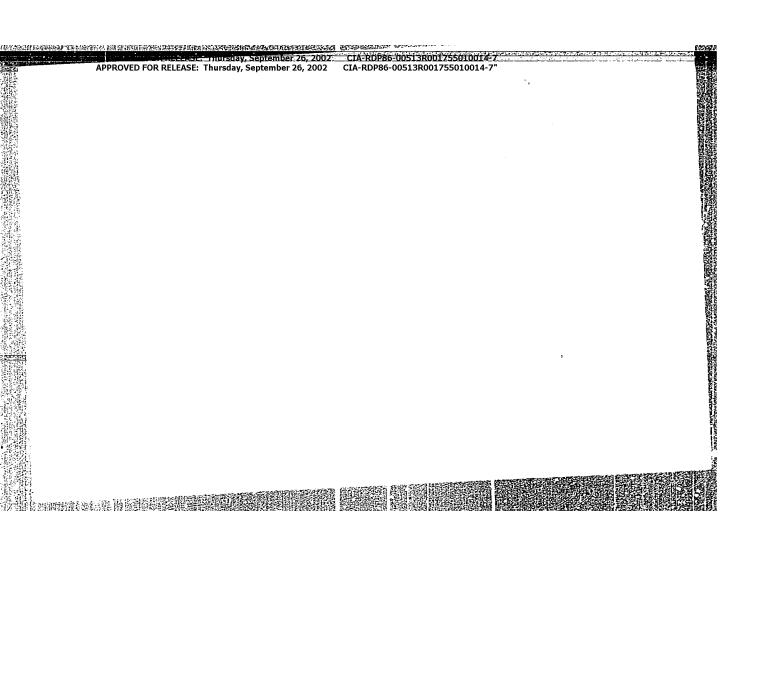
CIA-RDP86-00513R001755010014-7\*

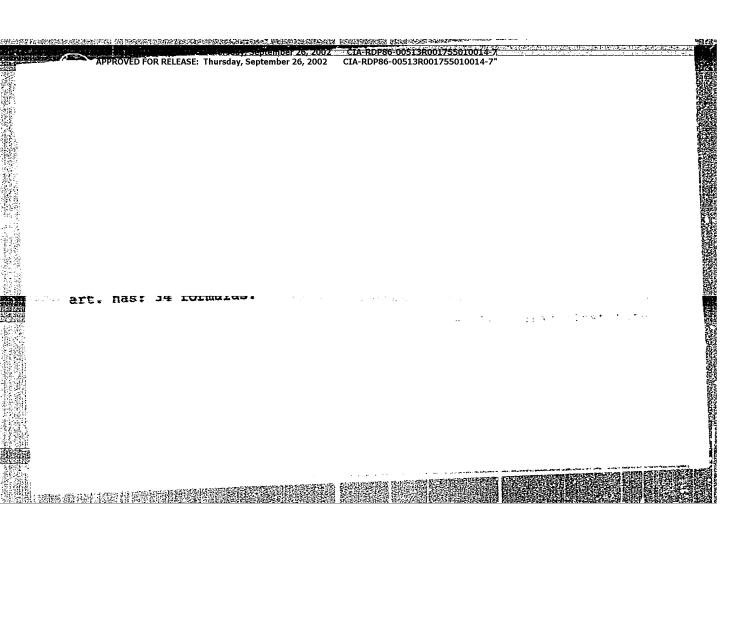
// 53 / 1/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3 / 0/3

APPROVED FOR RELEASE: Thursday, September 26, 2002 CLAR-DP86-00513R001755010014-7

APPROVED FOR RELEASE: Thursday, September 26, 2002 CLA







APPROVED FOR RELEASE: Thursday, September 26, 2002

63-66

EVIT (1)/T/EVIA(h)

IJP(c)

AT

ACC NRI AP5022706

SOURCE CODE: UR/0181/65/007/009/2688/2697/

AUTHOR: Tarkhanyan, R. G.

(box All

68

ORG: Institute of Semiconductors AN SSSR, Leningrad (Institut poluprovodníkov AN SSSR)

TITLE: Hagnetoresistance and thermomagnetism in a longitudinal quantizing magnetic field in semiconductors of the n-InSb type

SOURCE: Fizika tverdogo tela, v. 7, no. 9, 1965, 2688-2697

TOPIC TAGS: semiconductor theory, theoretic physics, indium compound, antimonide.
longitudinal magnetic field, thermomagnetic effect, magnetoresistance

ABSTRACT: The author studies the changes in thermoelectromotive force and resistance in semiconductors of the n-InSb type with regard to the deviation from parabolic form in the conduction band and electron spin in an arbitrary longitudinal quantizing magnetic field. It is assumed that acoustic scattering predominates. It is further assumed that the electrons are non-degenerate and that their concentration is constant, i. e. that it is independent of the magnetic field and temperature. The thermoelectromotive force is determined by calculating the heat flux transferred by electrons in the electric field and then applying Onsager's equations. The relaxation time for electron-phonon scattering and the longitudinal kinetic coefficients are determined.

Card 1/2

0

SUBH DATE: 26Har65/

3

SUB CODE: 20/

IJP(c) L 8845-66 EWT(1)

SOURCE CODE: UR/0181/65/007/009/2837/2842

ACC NRI AP5022733

44,55 AUTHOR: Ansel'm, A. I.; Obraztsov, Yu. N.; Tarkhanyan, R. G.

ORG: Institute of Semiconductors AN SSSR, Leningrad (Institut poluprovodnikov AN SSSR)

TITLE: Quantum theory for thermomagnetic currents in semiconductors and metals

SOURCE: Fizika tverdogo tela, v. 7, no. 9, 1965, 2837-2842

TOPIC TAGS: theoretic physics, quantum physics, thermomagnetic effect

ABSTRACT: The authors consider the problem of determining kinetic coefficients in equations for thermomagnetic phenomena in the quantum case when there is a temperature gradient. It is shown that solutions of the motion equations for the density matrix assuming local thermodynamic equilibrium lead to expressions for the current density which were proposed by Ansel'm and Askerov in 1960 (A. I. Ansel'm, B. M. Askerov, FTT, 2, 2310, 1960). The results coincide with data in recent papers on the quantum theory of thermomagnetic phenomena in semiconductors and metals. Orig. art. has: 28 formulas. OTH REF: 003

SUB CODE: 20/

SUBH DATE: 03Hay65/

ORIG REF:

ANSEL M, A.T.; OBRAZTSOV, Yu.N.; TARKHANYAN, R.G.

Quantum theory of thermomagnetic currents in semiconductors and metals. Fiz. tver, tela 7 no.982837-2842 5 65. (MIRA 18:10)

1. Institut poluprovodnikov AN SSSR, Leningrad.

MNDZHOYAN, A.L.; TARKHANYAN, Z.K.

5-Methylfurfural acetons. Sint. geterotsikl. soed. no.3:50-52 | 58 (Butenone) (MIRA 13:3)

KOLOMIYETS, B.T.; LYUBIN, V.M.; TARKHIN, D.Y.

Conductivity and photoconductivity in antimony triselenide films.

Fig. tver. tela 1 no.6:899-902 Je 159. (MIRA 12:10)

(Antimony selenide --Electric properties)

RYVKIN, S.M.; KONOPLEVA, R.F.; MASIOVA, L.V.; MATVEYEV, O.A.; STROKAN, N.B.; TARKHIN, D.V.; KHOZOV, G.V.

Germanium photodiodes with small inertia. Fiz. tver. tela 2 no.9:2199-2201 S '60. (MIRA 13:10)

1. Leningradskiy fiziko-tekhnicheskiy institut AN SSSR. (Germanium diodes)

211.01

Silicon N-P Counters of ...

5/120/61/000/002/012/042 E210/E594

Fig.1a the duration of the markers is 1 µsec. Fig.16 - lending edge of the pulse; marker duration 0.2 usec. Trigger delay 0.5 µsec. With decreasing temperature the pulse smilitude and duration remain unchanged. Silicon n-p counters are regarded as highly promising since even at room temperature they can operate as photovoltaic cells without an external power supply. Comments made during the proof-reading! The here described counters show considerable variance in the amplitudes of the pulses during the counting of monochromatic perticles, i.e. they are not suitable for spectrometry. At present, the laboratory of the authors manufactures surface-barrier silicon counters which are suitable for spectrometry (amplitude resolution less than 1% for 0.particles with energies of 5.5 MeV). The considerations presented in the paper are in principle applicable sleo for such apactrometric n-p counters. There are 1 figure and 3 Soviet references.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN SSSR (Physica-

ASSOCIATION: Fiziko-tekhnicheskiy institut AN SESR (Physico-technical institute AS USSR)

SUBMITTED: February 20, 1960

Card\_2/3

Thermodypotentials

**27401** s/089/61/011/003/002/013 B102/B138

21.6000

AUTHORS:

Ryvkin, S. M., Maslova, L. V., Matveyev, O. A., Strokan, N. B.,

Tarkhin, D. V.

TITLE:

Silicon counters in nuclear spectrometry

PERIODICAL: Atomnaya energiya, v. 11, no. 3, 1961, 217 - 220

TEXT: Silicon counters were developed at the Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN USSR (Physicotechnical Institute imeni A. F. Ioffe AS USSR) in 1960. The counters were small (active area: 2.2, 5.5, and 10.10 mm²). Their pulse height was  $\sim 1$  mv/Mev, and resolution less than 1% for  $\epsilon_{\alpha} = 5.5$  Mev. They were produced by sputtering gold to n-type silicon and diffusing phosphorus into the p-type silicon. The following characteristics were investigated: (1) Volt-ampere characteristics. They were the usual shape for p-n junctions. Reverse current was 0.5 - 0.05  $\mu$ a (at 40 v) for the small-sized counters, and increased proportionally with area; breakdown voltage was between 50 and 60 v. (2) Capacitance-barrier voltage dependence. The capacitance of the sensitive layer (the volume-charge domain) was in accordance with the usual capacitor formula  $\epsilon_{0} = \epsilon_{0} = 0.05$ 

27401 s/089/61/011/003/002/013 B102/B138

(S - area,  $\varepsilon_0$  - dielectric constant); since the thickness d of the sensitive layer is proportional to  $\sqrt{V+V_o}$ , the capacitance decreases as  $(v+v_0)^{-1/2}$  with increasing voltage. (3) Pulse height-voltage dependence. Pulse height was determined by Q = eN (N - number of pairs formed in ionization); the mean pair formation energy, E, was measured for  $Pu^{238}$ alpha particles (Q =  $2.5 \cdot 10^{-13}$  k):  $\varepsilon = 3.53 \pm 0.15$  ev; this value agrees with that found in Ref. 4 (see below). (4) Pulse height-energy dependence. Pulse height o as a function of voltage V was measured for the alpha energy groups 8.78 and 6.05 Mev. For the short-range group, pulse height reached saturation at  $\sim$  15 v, for the long-range group at  $\sim$  35 v.  $\Phi(E_{\alpha})$ was found to be a straight line. It is predicted that at V = 60 v linearity will also be maintained for alpha particles of up to 10 Mev or for any other particles with ranges of up to  $60\mu$ . (5) Amplitude resolution. This was determined on a 100-channel analyzer using Pu<sup>238</sup> alpha emission. After correction for noise background, resolution was found to be 27 kev or 0.5% for the small counter, 1% for the medium, and 10% for the large one. The spread is attributed to inhomogeneities of the silicon. In the OIYaI at Card 2/3

Silicon counter in nuclear ...

S/089/61/011/003/002/013 B102/B138

Dubna the 10·10-mm<sup>2</sup> counter has been used for U<sup>233</sup>-fission-fragment recording with high alpha background; G. N. Flerov, Corresponding Member of the AS USSR, has submitted a spectrum recorded with this counter to the authors of the present article. These junction counters may be used not only for recording of α-particles and fission fragments but also for fast and slow neutrons. The authors thank G. V. Khozov, Engineer. I. A. Lebedeva and G. D. Gusarina, laboratory assistents, and P. I. Gorshkov. mechanic, for assistance. There are 7 figures and 4 non-Soviet references. They read as follows: Ref. 1: J. Blankenship, C. Borkowski. Bull. Amer. Phys. Soc., ser. II, 5, No. 1, 38 (1960). Ref. 2: S. Friedland, L. Mauer, J. Wiggins. Nucleonics, 18, No. 2, 54 (1960). Ref. 3: J. Mc Kenzie, J. Waugh. Bull. Amer. Phys. Soc., ser. II, 5, No. 5, 355 (1960). Ref. 4: M. Halbert, J. Blankenship. Nucl. Instrum. and Methods, 8, No. 1, 106 (1960).

SUBMITTED: March 18, 1961



Card 3/3

KAZARINOV, N.M.; MATVEYEV, O.A.; RYVKIN, S.M.; SOLOV'YEV, S.M.; STROKAN, N.B.; TARKHIN, D.V.

Use of semiconductor spectrometric counters for measuring the energy of fragments. Atom. energ. 12 no.2:153-154 F 62. (MIRA 15:1) (Nuclear fission) (Nuclear counters)

MASLOVA, L. V.; MATVEYEV, O. A.; RYVKIN, S. M.; STROKAN, N. B.; TARKHIN, D. V.; KHOZOV, V. G.

Possibilities for using silicon counters in nuclear research. Izv. AN SSSR. Ser. fiz. 16 no.12:1498-1505 D '62. (MIRA 16:1)

(Nuclear counters-Design and construction)

ACCESSION NR: AP4041057

5/0120/64/000/003/0217/0218

AUTHOR: Matveyev, O. A.; Tarkhin, D. V.

TITLE: Etching p-n junctions by strong chemical etchants

SOURCE: Pribory\* i tekhnika eksperimenta, no. 3, 1964, 217-218

TOPIC TAGS: semiconductor, semiconductor material, pn junction, etched

crystal

ABSTRACT: Pincers with fluoroplastic jaws are suggested for holding a semiconductor billet in an etchant. After 2-1, minutes, water is poured into the etchant, and the washed billet is taken out. Ge-based (2 ohm-cm) specimens with a diffusion 1-2 cm² p-n junction had a breakdown voltage of 200 v and a resistance of 10 Mohms; Si-based (300 ohm-cm) up to 5 cm2 specimens had a breakdown voltage of 600 v and a few tens Mohms resistance. Orig. art. has: I figure.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN SSSR (Physico-Technical

Institute, AN SSSR)

SUBMITTED: 06Jul63

NO REF SOV: 000

ENCL: 00

OTHER: 000

Card 1/1

SUB CODE:

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R001755010014-7

CIA-RDP86-00513R001755010014-7

APPROVED FOR RELEASE: Thursday, September 26, 2002

APPROVED FOR RELEASE: Thur

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010014-7 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010014-7  CIA-RDP86-00513R001755010014-7	
	North Block
	A CANADA SANDA
	TANTONIA ?

-ACCESSION NR: AP4029703

8/0089/64/016/004/0363/0365

AUTHOR: Matveyev, O. A.; Ry\*vkin, S. M.; Tarkhin, D. V.

TITLE: Quick response silicon detectors of pulsed X-radiation

SOURCE: Atomnaya energiya, v. 16, no. 4, 1964, 363-365

TOPIC TAGS: semiconductor detector, n p junction, n i p junction, penetrating radiation, hard X radiation, quick response detector, hole type conductivity intrinsic conductivity, spectral sensitivity

ABSTRACT: This report discusses semiconductor n-p and n-i-p silicon detectors suitable for recording short pulses (about 10-7 sec.) of hard X-radiation having an energy up to 1 Mev. One of the two experimental quick-response detectors of pulse X-radiation was based on an n-p silicon junction which was achieved through the diffusion of phosphorus into silicon with a hole-type conductivity and a resistivity of about 1000 to 3000 ohm. cm. The second type was with n-i-p silicon junction. The region of intrinsic conductivity was

7 1/2

## ACCESSION NR: AP4029703

found by compensating the initial hole-type conductivity by the lithium ion drift in the n-p junction field. The nature of the detectors' spectral sensitivity to X-radiation of various energies was investigated by the use of filters made of St-3 iron. Thus; operating on the principle of collecting non-equilibrium current carriers in an n-p junction electric field, the n-p and n-i-p detectors represent quick-response X-radiation sensing elements with a sensitivity close to the maximum possible for silicon and a response time of about 10<sup>-7</sup> to 10<sup>-8</sup> sec. Although silicon has a relatively low X-radiation absorption factor, the mentioned detectors with a response time of about 10<sup>-7</sup> sec. are in a number of ways more suitable for the recording of pulse X-radiation than other instruments. Orig.

ASSOCIATION: None

SUBMITTED: 02Aug63

ATD PRESS: 3047

ENCL: 00

SUB CODE: EC, NP

NO REF SOVE 002

THERE 001

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010014-7 CIA-RDP86-00513R001755010014-7

TARKHNISHVILI, A.A.; MIRIMANOVA, D., red.; SAGARADZE, Sh., tekhn.

[Oriental confectionery]Vostochnye konditerskie izdeliia.
Tbilisi, Izd-vo Gruzinskogo polit. in-ta im. V.I.Lenina,
1961. 93 p. (MIRA 15:8)
(Confectionery)

APPROVED FOR RELEASE: Thursday, September 26, 2002

TARYHOU, 1. 1.

Tarkhov, A. G. "A New Method of Determining the Elements of a Vertical Dejosit by Means of Hagnetometric Data." Pazvedka Nedr, Hoscov, No. 19, 1934, pp. 35-38.

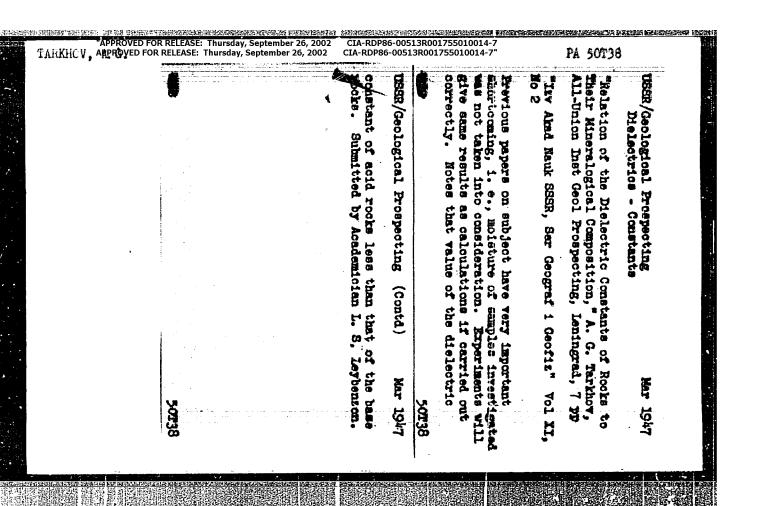
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010014-7"

CIA-RDP86-00513R001755010014-7"

TARKHOT, A. G.

"Geoelectrical Field of Filtration". Iz AN SSSR, Ser Geograf i Geofiz, No 5, 1940 (463-468). (Meteorologiya i Gidrologiya, No 6 Nov/Dec 1947)

SO: U-3218, 3 Apr 1953



TARKHEV, A. G.

Jul/luc 53

USSR/Geophysics - Geophysical Prospecting

"Modeling of Variable Electromagnetic Fields for hurroses of Meophysical Prospecting,"

A. G. Tarkhov, Moscov Geol-Prospecting Inst im S. Ordzhonikidze

Iz Ak Nauk SSSR, Ser Geofiz, No 4, pp 318-323

Discusses the possibility of modeling processes that govern the propagation of variable electromagnetic fields in mineral rocks. Briefly describes a modeling apparatus employed in lab expts. Gives the results of observations with conducting plates; also gives results of submerging plates in water. Establishes that the induction current excited by the external field in massive conductors is of a vortical character. Remarks that for this reason the data obtained in electroprospecting by means of alternating currents must be interpreted in order to make receivers accurate.

265 T21

AVPROVED FOR HEIGHE BESTELLE BESTELLE BY DESCRIPTION OF STATE OF STATES WELL SERVICE STATES AND STATES AND STA AVPROVED FOR HEIGHE BESTELLE BY SOPTEMBER 25/2012 - CIA-RDIVSC-00515R0017/55010014-7/ APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010014-7"

TARKHOV, A.G.

PHASE I

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 674 - I

BOOK Author: TARKHOV, A. G. Call No.: AF650087

Full Title: Geophysical Exploration by the Induction Method Transliterated Title: Geofizicheskaya razvedka metodom induktsii PUBLISHING DATA

Originating Agency: None

Publishing House: State Scientific and Technical Publishing House of Literature on Geology and Mineral Resources

No. pp.: 95 Date: 1954

No. of copies: 5,000

Editorial Staff

Editor: Prof. A. I. Zaborovskiy

PURPOSE: A textbook to satisfy the requirements for a book on the contemporary scientific level

TEXT DATA

Coverage: The book is divided into an introduction, four chapters, a conclusion, and a bibliography. The introduction gives a brief historical review of the method of induction started in 1927 and developed by I. G. Mikhaylov, A. M. Pylayev and A. V. Khoromskiy, who introduced methods of observation and apparatus. The method of resistance gave way to the method of induction by alternating electrical currents which since 1946 has been in the process of further research by a group of members of the Geophysical Institute of the Academy of Sciences under A. N. Tikhonov,

Geofizicheskaya razvedka metodom induktsii

AID 674 - I

corr. mem. Chapter I covers the physical fundamentals of the induction method; Chapter II, field work with the application of the method; Chapter III, sources of handicaps of nongeological origin; Chapter IV, application of the induction method to the solution of geological exploration problems, enumerates in abstract form the conditions and results obtained in the application of this method in nine regions of Russia. In the conclusion, the author mentions the future development of this method with emphasis on the modeling, the study of the phase structure of the fields, etc., and discusses, for example, the method of exploring the electrically conductive sulfide deposits. In view of the complicated structures of the deposits, the author attributes much importance to a minute geochemical exploration. But this is impractical because of the time necessary for the work and the high expenses, and may be substituted for by the geophysical induction method. The text is illustrated by many formulae and 60 diagrams, graphs, photoplates of instruments.

No. of References: 15 Russian (1933-1953) and 2 American Facilities: None

2/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010014-7"

CIA-RDP86-00513R001755010014-7"

# TARKHOV, A.G.

Determining the depth of underground conduction bodies by the induction method. Razved.i okh.nedr 20 no.1:33-36 Ja-F 154. (MLRA 9:12)

(Prospecting--Geophysical methods)
(Induction (Electricity))

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010014-7"

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010014-7"

ARASHKEVICH, V.M., dotsent; VESELOV, A.I., professor; VOLOTKOVSKIY, S.A., professor; ZHUKOV, L.I., dotsent; IPPOLITOV, M.D., dotsent; KUTTUKHIN, P.I., dotsent; KOMPANETETS, V.P., dotsent; MALAKHOV, A.Ye., professor; NEUDACHIN, G.I., dotsent; RYABUKHIN, G.Ye., professor; SAKOVTSEV, G.P., dotsent; STOYLOV, B.A., dotsent; TROP, A.Ye., dotsent; FEDOROV, S.A., professor; YAROSH, A.Ye., dotsent, redaktor; TARKHOV, A.G., redaktor; GAMBURTSEVA, Ye.Ye., redaktor; GUROVA, O.A., teknhicheskiy redaktor.

[Collection of articles on geophysical methods of prospecting]
Sbornik statei po geofizicheskim metodam rasvedki. Moskva.Gos.
nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr. 1955. 109 p.
(MLRA 8:11)

1. Sverdlovsk. Gornyy institut.
(Prospecting-Geophysical methods)

CIA-RDP86-00513K001755010014-/ "APPROVED FOR RELEASE: Thursday, September 26, 2002 USSR/Geoplysics CIA-RDP86-00513R001755010014-7"

FD-2578

Card 1/1

Pub. 44 8/19

Author

Tarkhov, A. G.

Title

Waveguide properties of mining operations

Periodical

Izv. AN SSSR, Ser. geofiz, Jul-Aug 55, 358-363

Abstract

: The basic theories of radio waveguides can be used to study the propagation of radiowaves in mine tunnels. The use of comparatively long waves gives greater effects. It is found that the presence of transverse shafts and variable shaft cross section cause changes in the field intensity. Artificial conductors in mines sharply distort the field and thus make separate sections difficult to study. Four references.

Institution

: Moscow Geological Prospecting Institute imeni S. Ordzhonikidze

Submitted

: February 1, 1954

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R0017550100147"

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010014-7"

TARKHOV, A.G.; VANTSYAN, G.M.

Prospecting hydroelectrometry. Resved.i okh.medr 21 no.5:
37-45 S-0 '55. (SERA 9:12)

(Geochemical prospecting)
(Flectrometer)

### TARKHOV, A.G.

Using radio wave attenuation for determining the electric properties of rocks. Izv.AN SSSR.Ser.geofiz. no.5:599-608 My \*56. (MLRA 9:8)

1. TSentral'nyy geofizicheskiy trest, Moskovskiy geologo-razvedochnyy institut.

(Radio waves)
(Rocks--Electric properties)
(Prospecting--Geophysical methods)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
CIA-RDP86-00513R001755010014-7"

TARKHOV, A.G.

Using magnetic prospecting methods in mining areas. Izv.AN SSSR.Ser. geofis. no.8:1005-1007 Ag 156. (MIRA 10:1)

(Prospecting—Geophysical methods)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
CIA-RDP86-00513R001755010014-7"
CIA-RDP86-00513R001755010014-7"

TARKHOV, A.G., doktor fiziko-matematicheskikh nauk.

\*Using the natural electrical field in electrical prospecting by A.S. Semenov. Reviewed by A.G. Tarkhov. Isv. AN SSSR.Ser.geofiz. no.11:1364-1366 N \*56. (MIRA 10:1) (Prospecting-Geophysical methods)(Terrestrial electricity) (Semenov.A.S.)

TARKHOV, A.G.

Review of collected articles of "Geophysical prospecting methods."

(MIRA 9:11) (MIRA 9:11) Rasved. 1 okh. nedr 22 no.9:60-63 S 156.

1. Moskovskiy Geologorasvedochnyy institut. (Prospecting-Geophysical methods)

TARKHOY, A.G.

Dispersion of electrical properties of rocks. Trudy MGRI 29:234-242

(Rocks--Electrical properties)

CHERNYSHEV, G.B.; BRITAYEV, M.D.; TARKHOV, A.G.; SHCHERBAKOV, A.V.; KREYTER, V.M., glavnyy red.; SHATALOV, Ye.T. zamestitel' glavnogo red.; YEHOYEYE, B.H., red.; ZENKOV, D.A., red.; ERASWIKOV, V.I., red.; NIFOHTOV, P.V., red.; SMIRNOV, V.I., red.; KHRUSHCHOV, H.A., red.; YAKZHIN, A.A., red.; MUKHIN, S.S., red.; AVERKIYEVA, T.A., tekhn. red.

> [Prospecting for ferrous metal deposits] Rasvedka mestoroshdenii chernykh metallov. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr. 1957. 102 p. (Metodicheskie ukasaniia po proizvodstvu geologo-razvedochnykh rabot, no.11). (MIRA 11 (MIRA 11:1) (Iron ores) (Prospecting)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010014-7 CIA-RDP86-00513R001755010014-7

KHRUSHCHOV, N.A.; KOSOV, B.M.; POLIKARPOCHKIN, V.V.; BRITAYEV, M.D.; TARKHOV, A.G.; SHCHERBAKOV, A.V.; KREYTER, V.M., glavnyy red.; SHATALOV, Ye.T., zamestitel' glavnogo red.; YEROFEYEV, B.H., red.; ZENKOV, D.A., red.; KRASNIKOV, V.I., red.; HIFOHTOV, R.V., red.; SMIHMOV, V.I., red., YAKZHIN, A.A., red.; VERSTAK, I.V., red., izd-va; AVERKIYEVA, T.A., tekhn. red.

[Prospecting for molybdenum, tungsten, tin, bismath, antinomy, and mercury deposits] Razvedka mestorozhdenii molibdena, vol'frama, olova, vismata, sur'my i rtuti. Moskva, Gos. nauchno-tekhn. izd-vo olova, vismata, sur'my i rtuti. Moskva, Gos. nauchno-tekhn. izd-vo olova, vismata, sur'my i rtuti. Moskva, Gos. nauchno-tekhn. izd-vo olova, vismata, sur'my i rtuti. Moskva, Gos. nauchno-tekhn. izd-vo olova, vismata, sur'my i rtuti. Moskva, Gos. nauchno-tekhn. izd-vo olova, vismata, sur'my i rtuti. Moskva, Gos. nauchno-tekhn. izd-vo olova, vismata, sur'my i rtuti. Moskva, Gos. nauchno-tekhn. izd-vo olova, vismata, sur'my i rtuti. Moskva, Gos. nauchno-tekhn. izd-vo olova, vismata, sur'my i rtuti. Moskva, Gos. nauchno-tekhn. izd-vo olova, vismata, sur'my i rtuti. Moskva, Gos. nauchno-tekhn. izd-vo olova, vismata, sur'my i rtuti. Moskva, Gos. nauchno-tekhn. izd-vo olova, vismata, sur'my i rtuti. Moskva, Gos. nauchno-tekhn. izd-vo olova, vismata, sur'my i rtuti. Moskva, Gos. nauchno-tekhn. izd-vo olova, vismata, sur'my i rtuti. Moskva, Gos. nauchno-tekhn. izd-vo olova, vismata, sur'my i rtuti. Moskva, Gos. nauchno-tekhn. izd-vo olova, vismata, sur'my i rtuti. Moskva, Gos. nauchno-tekhn. izd-vo olova, vismata, sur'my i rtuti. Moskva, Gos. nauchno-tekhn. izd-vo olova, vismata, sur'my i rtuti. Moskva, Gos. nauchno-tekhn. izd-vo olova, vismata, sur'my i rtuti. Moskva, Gos. nauchno-tekhn. izd-vo olova, sur'my i rtuti. Moskva, gos. i rtuti. Moskva, gos. i rtuti. Moskva, gos. i rtuti. Moskva, gos. i rtuti. Moskva, g

AMIRASIANOV, A.A.; BRITAYEV, M.D.; BYBOCHKIN, A.M.; ZENKOV, D.A.; TARKHOV, A.G.; TSYGANKO, N.I.; SHCHEHBAKOV, A.V.; KREYTER, V.M., glavnyy red.; SHATALOV, Ye.T., zamestitel glavnogo red.; YEROFEYEV, B.M., red.; ZENKOV, D.A., red.; KRASNIKOV, V.I., red.; NIFONTOV, R.V., red.; SMIRNOV, V.I., red.; KHRUSHCHOV, N.A., red.; YAKZHIN, A.A., red.; VERSTAK, G.V. red. izd-va; AVERKIYEVA, T.A., tekhn. red.

[Prospecting for copper, lead, and zinc deposits Razvedka mestoroshdenii medi, svintsa i tsinka. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1957. 135 p. (Metodicheskie ukasaniia po proizvodstvu geologo-razvedochnykh rabot, no.10).

(Ore deposits) (Prospecting) (MIRA 11:4)

SOV/169-59-2-1231

Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 2, p 31 (USSR)

AUTHORS: Tarkhov, A.G., Barkov, V.S.

TITLE: On the Method of Electric Profiling in the Case of Nomuniform Overburden

PERIODICAL: Byul. nauchno-tekhn. inform. M-vo geol. i okhrany nedr USSR, 1957, Nr 7

(12), pp 34 - 37

ABSTRACT:

It is presumed that the apparent resistivity  $Q_k^{\dagger}$  obtained by the little device will be indicating the influence of the overburden, while the great device AB makes it possible to determine the value of  $Q_k$  depending on the deep-seated rocks, when one carries out the investigations by the method of symmetrical electric profiling according to the AA'MNB'B scheme. Sharp distorting influences occur, when the overburden is non-uniform and variable in its thickness. It was attempted to represent the results of the electric profiling in the form of the graphs  $Q_k/Q_k$ , showing a considerable simplicity, for the purpose of the elimination of the influences mentioned. A similar method of treatment was applied to engineering geological prospecting in the Far East and in the Perm' region. The graphs of the curves

Card 1/2  $\rho_k$ ,  $\rho_k$ , and  $\rho_k/\rho_k$  obtained in the Perm' region for A'B' = 100 m and

SOV/169-59-2-1231

On the Method of Electric Profiling in the Case of Non-Uniform Overburden

AB = 400 m and recorded in the region of karst, limestones, are presented. The curves  $\rho_k$  and  $\rho_k$  mark the karst zones by maxima in the curve, but similar extrema are observed also in other points out of the karst zones. The curve of the  $\rho_k/\rho_k$  ratio marks the karst zone by a very distinct minimum. The curves  $\rho_k$ ,  $\rho_k$ , and  $\rho_k/\rho_k$  obtained in limestones without karst formation are also given. It is noted that the curve of the  $\rho_k/\rho_k$  ratio has a smooth character, but the curves  $\rho_k$  and  $\rho_k$  are very jagged. The author summarizes that the practice confirms some advantages of the relation method. An analytic explanation of the relation method is given. The author recommends the testing of this method in geological mapping and in prospecting for mineral resources.

E.N. Kuz'mina

Card 2/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010014-7"

CIA-RDP86-00513R001755010014-7"

THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT OF THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TRANSPORT OF THE PERSON NAMED IN COLUMN TWO IS NAMED IN THE PERSON NAMED IN COLUMN TWO IS NAMED IN THE PERSON NAMED IN COLUMN TWO IS NAMED IN TRANSPORT NAMED IN THE PERSON NAMED IN TRA

TARKHOV, A.G.

Electric reconnaissance techniques for detecting pure anomalies. Izv.AN SSSR.Ser.geofiz. no.8:979-989 kg '57. (MLRA 19:8)

1. Soyuznyy tsentral'nyy geofizicheskiy trest.
(Prospecting-Geophysical methods)
(Nagnetism, Terrestrial)

CIA-RDP86-00513R001755010014-7

CIA-RDP86-00513R001755010014-7

CIA-RDP86-00513R001755010014-7

TARKHOV, A.G.

TARKHOV, A.G.

Method for determining the capacity of pumps. Basved. i okh. medr 23 no.9:34-35 S 157. (MIRA 10:11)

1. Hoskovskiy geologorasvedochnyy institut im. S. Ordshonikidze. (Pumping machinery)

Thursday, September 26, 2002

[Exploration and working of mineral deposits; proceedings]
Razvedka i razrahotka poleznykh iskopaemykh. Moskva, Gos. nauchnotekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1958. 250 p.
(MIRA 12:1)

1. Vsesoyusnaya nauchno-tekhnicheskaya konferentsiya po primeneniyu radioaktivnykh i stabil'nykh izotopov i izlucheniy v narodnom khozyaystve i nauke, Moscov, 1957. 2. Moskovskiy neftyanoy institut im. I.M. Gubkina (for Dakhnov). 3. Institut nefti AN SSSR (for Shimelevich).

(Radioisotopes -- Industrial application)
(Mines and mineral resources) (011 wells)

TAR KHOV, H.C.

BARSUKOV, Oleg Aleksandrovich; BLINOVA, Nina Mikhaylovna; VYBORNYKH, Sergey Fedorovich; GULIN, Yuriy Aleksandrovich; DAKHNOV, Vladimir Nikolayevich; KHOLIN, Arkadiy Ivanovich; vich; TARIONOV, Vyacheslav Vasil'yevich; KHOLIN, Arkadiy Ivanovich; TARKHOW, Arkadiy doktro fiz. mat.nauk.prof., retsenzent; SHOROKHOVA, I.I., vedushchiy red.; PLOSINA, A.S., tekhn.red.

[Radioactive methods of research in oil and gas wells] Radioaktivnye metody issledovaniia neftianykh i gazovykh skvazhin. Moskva, Gos. nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1958. 314 p. (MIRA 11:6)

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R001755010014-7

CIA-RDP86-00513R001755010014-7

TARKHOV, A. G.

"Statistical Treatment of Findings in Mass Determination of Physical Properties of Samples of Rocks."

p. 259 in book Apolica Coophysica; Collection of Articles, No. up, Horoco Costopismiras, 1950, 257p.

those articles are concurred with the name tology of intropreting the results of previousle, estable and electrical nurveys. Barder the collecting properties of receip on the basis of total obtained from resistantives and the application of charges particle escalerators in well logging.

TARKHUV, A.G.

Underground geophysical prospecting. Izv. vys. ucheb. zav.; geol. i razv. no.1:107-123 Ja 158. (MIRA 11:6)

1. Moskovskiy geologo-razvedochnyy institut, Geofizicheskiy fakulitet.

(Prospecting-Geophysical methods)

### CIA-RDP86-00513R001755010014-7 CIA-RDP86-00513R001755010014-7

TARKHOV,

132-58-3-12/15

AUTHORS:

Authors of VIRG Symposium on

"Geophysical Methods of

Prospecting"

TITLE:

Remarks on the Review by A.G. Tarkhov of the VIRG "Geophysical Methods of Prospecting", Gosgeol-Symposium tekhizdat, 1955 (Zamechaniya po retsenzii A.G. Tarkhova na sbornik VIRG "Geofizicheskiye metody razvedki" - Gosgeol-

tekhizdat, 1955)

PERIODICAL:

Razvedka i Okhrana Nedr, 1958, Nr 3, pp 57-59 (USSR)

ABSTRACT:

The above mentioned book was published in 1955; the review of the book by A.G. Tarkhanov was published in this periodical (1956 - Nr 9). This article is an answer by various authors of the articles included in this book to the reviewer's criticism. The authors' names are not mentioned.

AVAILABLE:

Library of Congress

Card 1/1

1. Geophysical prospecting-USSR

Suay, September 26, 2002 CIA-RDP86-00513R001755010014-7

### TARKHOV, A.G.

Underground observations of the natural electric field in ore-bearing provinces. Izv. vys. ucheb. zav.; geol. i razv. 1 no.12:114-122 D. 158.

1. Moskovskiy geologorazvedochnyy institut im. S. Ordzhonikidze. (Electric fields)

| CIA-RDP86-00513R001755010014-7 TARAHOV, A.G.

Statistical methods of working up mass measurement data on the physical properties of rock specimens. Prikl.geofiz. no.20:259-268 (MIRA 11:11)

(Prospecting-Geophysical methods)

NJ: 50-00513R001755010014-7 rnursday, September 26, 2002 CIA-RDP86-00513R001755010014-7

DAKHNOV, Vladimir Nikolayevich, professor; TARKHOV, A.G., prof., doktor fiziko-mat.nauk; PERSHINA, Ye.G., vedushchiy reds; PEDOTOVA, I.G., tekhn.red.

[Industrial geophysics: methods of industrial geophysics, apparatus and equipment, electrical methods in oil well logging]. Promyslovaia geofizika; metody promyslovoi geofiziki, apparatura i oborudovanie, elektricheskie metody issledovaniia skvashin. Moskva, Gos. nauchno-elektricheskie metody issledovaniia skvashin. 1959. 692 p. tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1959. (MIRA 12:2)

(Prospecting--Geophysical methods) (011 well logging)

SOV/49-59-4-19/20

AUTHOR: Tarkhov, A. G.

ileriani di antico di Partico di Propinsi di Propinsi

TITLE: On the Relationship of the Geophysical Fields (O vzaimnykh svyazyakh geofizicheskikh poley)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya, 1959, Nr 4, pp 635-637 (USSR)

ABSTRACT: The author gives a short account of 4 books on the above subject. The books, which are listed in the 4 references,

(1) On the determination of electric characteristics of the are as follows:

Earth's crust, by A. N. Tikhonov.

(2) A method of investigation of the seismic phenomena, by

G.A. Ivanov.
(3) The relationship between the potential anomalies of the geophysical fields and their complex interpretation, by A. A.

(4) The relationship between the electric and gravity anomalies, Nepomnyashchikh.

by Yu. P. Bulashevich. There are 4 Soviet references.

SUBMITTED: May 12, 1958.

Card 1/1

AL'PIN, L.M.; TARKHOV, A.G.

Geophysical Department of the Moscow Geological Prospecting
Institute. Trudy MGRI 36:3-6 '59. (MIRA 15:5)

(Prospecting—Geophysical methods)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010014-7

# TARKHOV, A.G.

Geothermal methods in the petroleum geology; review of D.I.D'iakonov's book. Izv.vys.ucheb.zav.; geol.i razv. 2 no.9:135-141 S '59. (MIRA 13:4)

1. Moskovskiy geologorasvedochnyy institut imeni S.Ordzhonikidse.
(Earth temperature) (Prospecting-Geophysical methods)
(D'iakonov, D.I.)

CIA-RDP86-00513R001755010014-7"

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R001755010014-7"

TARKHOV, A.G.; SIDOROV, A.A.

Working up geophysical data by mathematical methods. Izv.AU SSSR.Ser.geofiz. no.10:1450-1457 0 '60. (MIRA 13:9)

1. Moskovskiy geologorazvedochnyy institut.
(Prospecting-Geophysical methods)

S/169/61/000/012/027/089 D228/D305

AUTHOR:

Tarkhov, A. G.

TITLE:

Present state and prospects of the development of high-frequency electrical prospecting

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 12, 1961, 37, abstract 12A357 (Izv. vyssh. uchebn. zavedeniy. Geol. i razvedka, 1960,3 no. 9, 98-113)

TEXT: The expansion of the geological possibilities of electrical prospecting can be expected during the subsequent extension of research on the processes of the passing and formation of electromagnetic fields, especially those of a high-frequency. The author cites theoretical graphs, computed by V. N. Nikitina, for the horizontal and vertical components of the anomalous constituent of a magnetic field created by a flat electromagnetic wave above an inclined conducting vein;

Card 1/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010014-7"

S/169/61/000/012/027/089 D228/D305

Present state and ...

these are coincident in their character with the relationships established by modeling. Recent advances in the creation of apparatus for radiowave X-raying and induction are described. The need is emphasized for the quickest compilation and publication of handbooks and manuals of high-frequency electrical prospecting, as is the desirability for the further expansion of scientific research work in this field. Abstracter's note: Complete translation.

**Card** 2/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010014-7"

VARLAMOV, A.S.; MIKHAYLOV, I.N.; NIKITIN, A.A.; PUCHKOV, Ye.P.; TARKHOV, A.G.

Some features of the method of processing the results of geophysical research in direct prospecting for diamonds in the Yakut A.S.S.R. Izv. vys. ucheb. zav.; geol. i razv. 3 no.12:58-97 D 160. (MIRA 14:5)

I. Moskovskiy georogorazvedochnyy institut imeni S. Ordzhonikidze. (Yakutia—Diamonds) (Prospecting—Geophysical methods)

S/169/62/000/003/020/098 D228/D301

AUTHORS:

Bogdanov, A. Sh. and Tarkhov, A. G.

TITLE:

Development of ore prospecting by electrical methods

in the next few years

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 3, 1962, 24, abstract 3A207 (Razvedka i okhrana nedr, no. 7, 1961,

31-37)

TEXT: It is noted that electrical prospecting can be expediently applied not only for direct orebody searches but also for closely studying a mineralized area's geologic structure. The replacement of the current methods of lateral electrical sounding and d.c. electrical profiling by more mobile and productive techniques is of great significance. In this respect frequency electromagnetic sounding, whose apparatus weighs ~200 kg, is promising; the method's depth potential extends down to 400 m. The method of potenthod's depth potential extends down to 400 m. tial sounding is progressing. The customary equipment of the resistivity method is used in this technique which is distinguished

card 1/2

Development of ore ...

S/169/62/000/003/020/098 D228/D301

by its high productivity and simplicity of interpreting the observational results. The new methods of d.c. profiling and magnetic and phase-amplitude measurement, for which the A4N-2 (AFI-2) apparatus that has been successfully proved in different areas of the prospecting which have successfully replaced surface operations in some districts, are acquiring especial significance. New equiparent has been developed for the method of induced polarization, applied for operations according to the method of field formation. Pecting — radiopiles — are being practised widely. The well and shaft versions of the technique of radiowave X-raying are extremely promising. Abstracter's note: Complete translation. 7

# BONDARENKO, V.M.; DEMIDOVICH, O.A.; TARKHOV, A.G.

First results of the combined use of geophysical methods of direct prospecting for diamond deposits in the Yakut A.S.S.R. Izv.vys. ucheb.zav.; geol.i razv. 4 no.2:118-132 F '61. (MIRA 14:6)

1. Moskovskiy geologorazvedochnyy institut imeni S.Ordzhonikidze. (Yakutia—Diamonds) (Prospecting—Geophysical methods)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010014-7 CIA-RDP86-00513R001755010014-7

TARKHOV, A.G.; VANTSYAN, G.M.

Determination of the electric conductivity of rocks and ores based on the transient grounding resistance. Razved i okh nedr 27 no.2:53-56 F \*61. (MIRA (MIRA 14:5)

1. Moskovskiy geologorazvedochnyy institut (for Tarkhov).
2. Institut geologicheskikh nauk Armyanskoy SSR (for Vantsyan), (Ores-Electric properties)

կկ588 S/169/62/000/012/029/095 D228/D307

9.9700

AUTHOR:

Tarkhov, A.G.

TIME:

Electric prospecting by the radio comparing and

direction finding (radiokip!) method

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 12, 1962, 44, abstract 12A358 (Razvedka i okhrana nedr. no. 1,

1962, 29-34)

TEXT: The radiokip method is based on the fact that it studies the electromagnetic field in the distant wave zone of radio station emission. When the dimensions of areas under investigation are limited, the electromagnetic wave spreading along the ground surface can be regarded as flat, and the intensity of the normal field can be taken as constant. Complex radiowave diffraction processes, which distort the normal field and create anomalies, arise if discontinuities, tectonic dislocations, orebodies, etc are present beneath the ground. Data are given on the technique and procedure of field operations, and the equipment is described. The

Card 1/2

S/169/62/000/012/029/095 D228/D307

Electric prospecting ...

scope of the investigation is considered. In the author's opinion, provided the conditions are favorable, the radiokip method can be expediently used in solving a number of problems, for example in geological mapping, prospecting for ore deposits, approximately estimating the thickness of deposits and solving engineering geological and hydrological problems (finding pockets of fresh water among salt water).

[Abstracter's note: Complete translation]

## S/169/62/000/011/013/077 D228/D307

AUTHORS:

Bondarenko, V.M., Kovalenko, N.D. and Tarkhov, A.G.

TITLE:

Geophysical investigations of uranium deposits by

the method of radio wave translucence

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 11, 1962, 56, abstract 11A337 (Izv. vyssh. uchebn. zavedeniy,

Geol. i razvedka, no. 2, 1962, 71-82)

TEXT: The Kafedra razvedochnoy geofiziki MGRI (Exploration Geophysics Department of the MGRI) undertook an attempt to apply the radio-wave translucence method in two uranium deposits and also carried out modeling on models of finite conductance. The usual shaft-ried out modeling a wide-band (from 0.37 to 20 Mc/s) generatype equipment, including a wide-band (from 0.37 to 20 Mc/s) generator with 20 fixed frequencies working off a rod antenna, was used in the field investigations, as was a standard MN-12-2M (IP-12-2M) receiver. In the latter the output was changed from the pin to the screened operating antenna. The modeling work aimed at exposing the possibilities of a new electromagnetic profiling method, allowing

Card 1/2

Geophysical investigations ...

S/169/62/000/011/013/077 D228/D307

operations to be conducted from one mine working. form of a box of organic glass plates. In the observations the box The model had the was filled with mineralized water having a variable NaCl concentration. The results of the modeling confirmed that the radio-wave translucence method can be applied on objects with low conductance. In the field work the absorption factors of an orebody and its hostrocks were determined at many points of the deposit. Within the same horizon the magnitudes of the absorption factor appeared to remain practically constant; for the deposit as a whole, however, they are characterized by a rather high scatter. Ore zones differ in comparison with host-rocks in their reduced resistivity; this is evidently explained by their jointing, hydrothermal alteration, and sulfidization. Observations by the radio-wave translucence method were made on a known ore zone, exposed by a drift and a crosscut. The ore zone was displayed on the observed curve. The electromagnetic profiling method was also tested in drifts. The possibility of mapping fault zones is shown. Abstracter's note: Complete translation

S/169/62/000/009/021/120 D228/D307

AUTHORS: Tarkhov, A. G. and Sidorov, A. A.

TITLE: Some applications of the information theory to explo-

ration geophysics

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 9, 1962, 25, abstract 9A161 (In collection: Sostoyaniye 1 perspekti-

vy razvitiya geofiz. metodov poiskov i razvedki polezn. iskopayemykh, M., Gostoptekhizdat, 1961, 135-141)

TEXT: An account is given of the question of using mathematical statistical means in geophysical methods. All the ways of mathematically processing geophysical data aim at distinguishing an anomaly against the background of obstacles. The volume of useful information is not thereby increased, but the anomaly/impediment ratio grows in consequence of the suppression of harmful information. This position is illustrated in examples. The set problem is solved by means of using different methods of the information theory. One of these methods — the technique of inverse probability — is Card 1/2

Some applications of ...

S/169/62/000/009/021/120 D228/D307

stated. The effectiveness of this method's application is shown in the example of the processing of the \$\Lambda Z\$ curve for one of Armenia's polymetal deposits. The characteristics of the methods of successive averaging and of successive differences are given. In conclusion it is noted that the creation of specialized computers will further the successful application of methods of statistically processing geophysical data. \( \subseteq \text{Abstracter's note: Complete translation.} \)

KOVALENKO, N.D.; TARKHOV, A.G.

Prospecting by the use of radio waves in mine workings. Uch. zap. SAIGIMSa no.8:145-157 '62. (MIRA 17:1)

1. Moskovskiy geologorazvedochnyy institut.

TARKHOV, A.G., doktor fiziko-matem. nauk, prof., red.; KUZ'MINA, N.H., ved. red.; POLOSINA, A.S., tekhn. red.

[Handbook of geophysics] Spravochnik geofizika. Moskva, Gostoptekhizdat. Vol.3. [Electric prospecting] Elektro-razvedka. Pod red. A.G. Tarkhova. 1963. 582 p.

(MIRA 16:5)

(Electric prospecting)

## DAYEV, D.S.; SERDINOV, A.I.; TARKHOV, A.G.

Modeling problems in the method of radio wave probing. Izv. AN SSSR. Ser. geofiz. no.6:936-945 Je '63. (MIRA 16:7)

1. Moskovskiy geologorazvedochnyy institut imeni S.Ordzhonikidze. (Electromagnetic prospecting)

PROBULMS ASSIRE

Blokh, Ya. L., V. M. Bondarenko, and A. G. Tarkhov. Geomagnetizm i aeronomiya, v. 3, no. 2, 1963, 390-392. S 203:63:003/002:025 027

A recent Soviet experiment using underground measurements of cosmic rays to detect and delineate an one body was carried out in the Central Urals with a narrow-direction, 3-way recording counter telescope. The resolution time of the counter circuit was about 5  $\mu$ sec and the effective area of the telescope was  $0.1 \, \text{m}^2$ . Both the counter and the electronic circuits were powered by any cell catteries. Into the features of the experiment were that  $\mu$  the trie scope had different dimensions in 3 directions and 2) this was the first fell attended with this method to distinguish backets one bodies — co; per pyrite—lensity  $\alpha = 4.58 \, \text{g/cm}^3$ —and country rocks—quartz-sericite schists  $(a * 3.27 \, \text{g/cm}^3)$  and quartz-albite porphyries  $\alpha = 2.74 \, \text{g/cm}^3$ 

Card 1/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010014-7

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010014-7

UNDERGROUND COSMIC RAY RECORDINGS [Cont'd]

8/203/63/003/002/025/027

The cover rock along the 600-m section was 315-350 m thick. Radiation was measured at 3 points under the ore body and at 2 in the country rock. The results demonstrated that actual rock densities compared favorably with their theoretically computed values and that underground cosmic ray measurements can be used successfully to determine rock measures, dipths of observation points, and the thicknesses of overlying masses.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010014-7

CIA-RDP86-00513R001755010014-7

ISAYENKO, M.P.; RUSINOV, L.A.; SAAKYAN, P.S.; SERDYUKOVA, A.S.; TARKHOV, A.G.

Review of [prof., deceased] A.A. IAkzhin's book "Prospecting for uranium deposits." Izv. vys. ucheb. zav.; geol. i razv. 6 no.2:127-130 F '63. (MIRA 16:6)

1. Moskovskiy geologorazvedochnyy institut im. S. Ordshonikidze. (Uranium ores) (IAkshin, A.A.)

DYUKOV, A.I.; TARKHOV, A.G.

"Geophysical methods in areal structural geology" by B.A.Andreev. Reviewed by A.I.Diukov, A.G.Tarkhov. Izv.vys.ucheb.zav.; geol.i razv. 6 no.3:133-135 Mr '63. (MIRA 16:5)

1. Moskovskiy geologorazvedochnyy institut imeni S.Ordzhonikidze. (Prospecting--Geophysical methods) (Andreev, B.A.)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010014-7

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010014-7"

TARKHOV, A.G.; YAKUBOVSKIY, Yu.V.

Review of V. Fritsch's book "Electrical measurements in large conductors as used in applied terrestrial electricity work."

Izv. vys. ucheb. zav.; geol. i razv. 6 no.9:149-150 S '63.

(MIRA 17:10)

1. Moskovskiy geologorazvedochnyy institut im. S.Ordshonikidze.

TARKHOV, A.G.

Effect of rocks on the propagation of radio waves. Radiotekh. i elektron. 8 no.7:1282-1286 Jl '63. (MIRA 16:8)

1. Moskovskiy geologorazvedochnyy institut im. S.Ordzhonikidze. (Radio waves)

AL'FIN, L.M., prof., otv. red.; TARKHOV, A.G., prof., zam. otv. red.; YAKUBOVEKIY, Yu.V., dots., zam. otv. rec.

[Transactions of the All-Union Interuniversity Scientific Conference on Inductive Methods for Ore Geophysics] Trudy Mezhvuzovskoi nauchnoi konferentsii po induktivnym metodam rudnoi geofiziki. Moskva, Izd-vo "Nedra," 1964. 233 p. (MIRA 17:7)

1. Vsesoyuznaya mezhvuzovskaya nauchnaya konferentsiya po induktivnym metodam rudnoy geofiziki, Moscow, 1961.
2. Moskovskiy geologorazvedochnyy institut im. S.Ordzhonikidze (for Tarkhov).

HUPONTSEVA, Z.G.; TARKHOY, A.G. LYU SHY-DUN! [Liu Shu-tun], aspirent (Hitayskaya Narodnaya Res. Ra)

Practice in the statistical processing of geothers: lobser-vation data in the holes of the Krivoy Rog Basin. Inv. vys. ucheb. zav.; geol. i razv. 6 no.12:117-122 D '63 (MIRA 18:3)

1. Moskovskiy geologorazvedochnyy institut im. S. Ordzhonikidze.

BONDARENKO, V.M., TARKHOV, A.G.

Using penetrating cosmic radiation to determine the mean density of rocks. Razved. i okh. nedr 30 no.4:30-34 hp 104.

1. Moskovskiy geologorazvedochnyy institut imeni Sergo Ordzhonikidze.

BLOKH, Ya.L.; BONDARENKO, V.M.; KOVALENKO, N.D.; TARKHOV, A.G.

Use of cosmic radiation for the purposes of underground geophysical prospecting. Prikl. geofiz. no.38:142-157 '64.

(MIRA 18:11)

ACC NRI

AT6028388

SOURCE CODE: UR/0000/65/000/000/0275/0288

AUTHOR: Bondarenko, V. M.; Kovalenko, N. D.; Mudretsova, Ye. A.; Tarkhov, A. G. ORG: nong

TITIE: Underground geophysical exploration

SOURCE: International Geological Congress. 22d, New Delhi, 1964. Geologicheskiye rezul'taty prikladnoy geofiziki (Geological results of applied geophysics); doklady sovetskikh geologov, problema 2. Moscow, Izd-vo Nedra, 1965, 275-288

TOPIC TAGS: borehole, tellurometry, radio field, ore prospecting, anomaly, gradient, geophysical prospecting, GEOPHYSIC EXPEDITION, RADIO WAVE, GEOLOGIC

ABSTRACT: Field geophysical measurements conducted at the surface are not always sufficiently deep. An important contribution to this problem can be made by conducting underground observations in the available or specially provided mines (boreholes). Radio-wave surveying, which detects differences in rock conductivities is one of the best available methods. It measures intensity and phase structure of radio-frequency fields Different modifications have been developed for single mines (boreholes). At present the method is used for ore prospecting (massive, impregnated, sulphide, and even uranium ores, the latter generally slightly mineralized). The method may be recommended for locating zones of high water content which may be dangerous for explora-

Card 1/2

ACC NR: AT6028388

tion. The specific character of underground gravity measurements depends upon the low intensity of the anomalies. This method requires high accuracy of measurements and allowance for interference (relief, walls of the mine, empty cavities, collapse zones). Three-dimensional templets have been prepared for small objects. Complex measurements include general gravity surveys and gradient meter observations. The the ore bodies which have been missed during mining (copper and iron). Intensity of cosmic rays decreases with the increase of the rock mass through which muons penelying rocks (for making corrections of gravity data) and located overlying geological have been successful. To raise the effectiveness of underground prospecting and mining, it is necessary to apply other geophysical methods such as magnetometry, esismic prospecting, thermometry, and various modifications of electric prospecting. Teaticularly interesting in combination of surface and underground geophysical investigations. Orig. art. has: 8 figures.

**\**5

SUB CODE: 08/ SUBM DATE: 06Jan65/ ORIG REF: 010/ OTH REF: CO2

TARKHOV, A.I., inzh. (Stalinabad)

Automation in cotton watering. Gidr.i mel. 12 no.3:20-23 Mr '60. (Tajikistan--Irrigation) (MIRA 13:6)

APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
CIA-RDP86-00513R001755010014-7"
CIA-RDP86-00513R001755010014-7"

TARKHOV, A.I., inzh. (g.Stalinagad)

Shortcomings in the design and construction of irrigation systems. Gidr. i mel. 12 no. 12:15-19 D '60. (MIRA 14:1) (Tajikistan--Irrigation)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010014-7" CIA-RDP86-00513R001755010014-7"

TARKHOV, A.I., inzh.; GUSHCHIN, G.I., red.; MIRONOV, N., tekhn. red.

[Pneumatics and automation of irrigation] Pnevmatika i avtomatizatsiia polivov. Stalinabad, Izd-vo M-va sel'khoz. Tadzhikakoi SSR, 1961. 42 p. (MIRA 15:1)

(Irrigation farming)

3 (5) AUTHORS:

Musatov, D. I., Tarkov, A. P.

507/20-126-6-49/67

TITLE:

On the Problem of the Tectonic Structure of the Central Part of the Sayano-Altayskaya Folded Region (K voprosu o tektonicheskom stroyenii tsentral'noy chasti Sayano-Altayskoy skladchatoy

oblasti)

PERIODICAL:

Doklady Akademy nauk SSSR, 1959, Vol 126, Nr 6, pp 1323 - 1325

(USSR)

ABSTRACT:

The tectonic division into districts of the Caledonian formations of the Kuznetskiy Alatau, of the northern part of West Sayan, of the western part of East Sayan and of the foundation of the Minusinsk-inter-mountain-basins is based on a formation analysis and aeromagnetic knowledge. The authors separated the following types of main structure elements (see Scheme Fig !):

A. Projections of the foundation of the Caledonian geosyncline (gneiss, amphibolites etc.) a) which are reaching the surface, b) hidden under a layer of Middle- and Upper Palenzo c, sediments. a. are characterized by negative magnetic surmalies (potential = napryazhennost! up to 700 gamma). Sections of a weakly positive magnetic field correspond to the case b. The age of

Card 1/4

On the Problem of the Tectonic Structure of the Central Part of the Sayano-Altayskaya Folded Region

807/20-126-6-49/67

the rocks is here Proterozoic. B. The fractures in depth accompany the geosynclinal troughs which consist mainly of terrigenous masses and volcanogenic formations of a basic or middle composition. The troughs have a distinctly marked linear shape. The troughs are distinctly distinguished in the magnetic field: linear bands of an abruptly varying positive field correspond to them, limited by zones of great horizontal gradients of the  $\Delta$ Ta-values. V. Geosynclinal downwarpings have a reduced thickness of the cross section. Differentiated acid intrusions are widely distributed here beside basic ones. The magnetic field varies here considerably and has a changing sign (more often positive). G. Geosynclinal elevations have also a reduced thickness, carbonate formations prevail here. Intrusive activity is inconsiderably developed. Great zones of negative magnetic anomalies occur here. The scheme (Fig 1) shows moreover, intrusive complexes of different age as well as the main structure elements of the Upper Paleozoic inter-mountain-basins of Minusinsk. The following rules governing the tectonic structure of the said district are found on the basis of the totality of the geological and geophysical knowledge: I. The cross section of

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755010014-7

On the Problem of the Tectonic Structure of the SOV/20-126-6-49/6? Central Part of the Sayano-Altayakaya Folded Region

the Caledonian geosyncline begins with a terrigenous-volcanogenic formation of a Riffian age (Kuvayskaya series in East Sayan, Iyusakaya and Portal'skaya suites of the Kuznetskiy Alatau; Dzhebashskaya series in West Sayan). II. The Caledonian geosyncline developed in the places of the trough downwarpings (Ref 2). III. The oldest Caledonian structures are crientated in the Kuznetskiy Alatau in north-western direction parallely to the trough zone. Structures of the north-eastern- and subparallel direction are younger. IV. 3 downwarpings of the Kuznetskiy Alatau are the most conservative ones. Others were reconstructed. V. The geosynclinal intrusive complexes are bound in the whole district to downwarping zones with the exception of the great homogeneous granitic complexes (Ref 3). VI. The joint of the Lower Paleozoic fold structures of the Kuznetskiy Alatau and of the East Sayan is a series of nearly parallel arcs the vaulted side of which is orientated to the north. West- and East Sayan are attached to one another in a similar way. VII. The system of the Minusinsk inter-mountain-basins is bound to belong in its totality to the category of the overlain structures. VIII. 5 rules governing the interrelation of

Card 3/4

On the Problem of the Tectonic Structure of the Central Part of the Sayano-Altayskaya Folded Region

SOV/20-126-6-49/67

individual types of the Upper Paleozoic and of the Caledonian fold structures were found. IX. The Devonian intrusions of the alkaline and subalkaline type are bound according to certain rules either to intra-geosynclinal elevations or to downwarping sections. A brachy-like shape of the folds of the Lower Paleozoic masses is characteristic of them. There are 1 figure and 3 Soviet references.

ASSOCIATION:

Vsesoyuznyy nauchno-issledovatel'skiy geologicheckiy institut

(All-Union Scientific Geological Research Institute)

PRESENTED:

November 10, 1958, by A. L. Yanshin, Academician

SUBMITTED:

November 5, 1958

Card 4/4